

PRACTICE TEST 4 – CHAPTER 5 & 6

Beginning and Intermediate Algebra by Elayn Martin-Gay, 6th edition

****Reminder: Graphing Calculators will NOT be allowed on MATH 0361 tests****

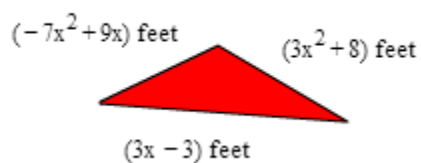
1. If $Q(x) = 3x^2 - 9$, find $Q\left(\frac{1}{4}\right)$

Perform the indicated operation:

2. $(6y + 3) - (-7y^2 - 7y + 3)$

3. $(5x^2 + 5x - 4) + (2x^2 + 9x + 17) - (7x^2 - 15)$

4. Find the perimeter:

**Multiply:**

5. $(4x^9)(-4x^9)(5x^5)$

6. $(4x - 6)(2x - 6)$

7. $(4x^2 + 1)^2$

8. $(x - 4)(x^2 - 3x + 7)$

9. $(3y - 9)(y + 4)$

10. $(3x + 8)^2$

11. $(9x - 4)(9x + 4)$

12. $(8x - 4y)^2$

Divide:

13. $\frac{12p^5 + 18p^3}{3p}$

14. $\frac{9x^4 - 6x^3 + 7}{-9x^4}$

15. $\frac{x^2 + 4x + 3}{x + 1}$

16. $\frac{6x^2 + 17x + 7}{3x + 4}$

17. Find the GCF of: 9, 18, 30

18. Find the GCF: $x^{10}y^7, x^9y^6, xy^7, x^4y^5$

19. Factor out the GCF: $18m^7 + 12m^5 - 4m^3$

20. Factor by grouping: $5xy + 20x + 9y + 36$

MATH0361 Practice Test 4 Answers:

1) $-\frac{141}{16}$

2) $7y^2 + 13y$

3) $14x + 28$

4) $-4x^2 + 12x + 5$

5) $-80x^{23}$

6) $8x^2 - 36x + 36$

7) $16x^4 + 8x^2 + 1$

8) $x^3 - 7x^2 + 19x - 28$

9) $3y^2 + 3y - 36$

10) $9x^2 + 48x + 64$

11) $81x^2 - 16$

12) $64x^2 - 64xy + 16y^2$

13) $4p^4 + 6p^2$

14) $-1 + \frac{2}{3x} - \frac{7}{9x^4}$

15) $x + 3$

16) $2x + 3 - \frac{5}{3x + 4}$

17) 3

18) xy^5

19) $2m^3(9m^4 + 6m^2 - 2)$

20) $(y + 4)(5x + 9)$